

17572

Table 1

SULFATE BASIN SAMPLING (TAT)
November 16, 1989

Parameter	WMP 005 outfall 001 (mg/l)	WMP 005 outfall 001 (soil) (mg/kg)	WMP 006 (Water) (mg/l)	WMP 007 (Water) (ug/l)	WMP 007 (Slope) (mg/kg)	WMP 007 (Water) (ug/l)	WMP 008 (Slope) (mg/kg)	WMP 008 (Water) (ug/l)	WMP 009 (Slope) (mg/kg)	WMP 009 (Water) (ug/l)	WMP 010 Manhole A-34 (Water) (ug/l)
PH	7.95	NA	8.27	8.12	NA	8.17	NA	7.65	NA	7.65	7.65
TSS (mg/l)	9.8	NA	11.0	42.0	NA	16.0	NA	71.0	NA	NA	26.0
BOD ₅ (mg/l)	< 2.0	NA	< 2.0	73.4	NA	< 2.0	NA	213	NA	NA	8.0
oil and grease (mg/l)	290		8.07	2.38		40.5		16.5			2.00
Antimony	< 10.0	< 1.7	< 10.0	< 10.0	< 20.5	< 10.0		< 10.0			< 10.0
Arsenic	< 10.0	30.5	25.6	< 10.0	< 20.8	< 10.0		< 10.0			< 10.0
Cadmium	< 10.0	< 1.7	< 10.0	121	< 10.0	< 10.0		< 10.0			< 10.0
Chromium	< 10.0	3.9	< 10.0	23.9	199	< 10.0		30.8			16.4
Copper	< 10.0	5.9	< 10.0	< 10.0	70.0	< 10.0		< 10.0			< 10.0
Lead	< 10.0	4.7	< 10.0	37.8	212	< 10.0		48.8			< 10.2
Mercury	< 2.0	< 0.17	< 2.0	< 2.0	< 2.0	< 2.0		2.6			< 0.2
Nickel	< 10.0	4.6	< 10.0	20.7	57.0	< 10.0		26.3			< 10.0
Zinc	21.3	34.9	95.0	3109	26000	533		6950			5100
Phenol	< 10.0	< 0.34	< 10.0	53	< 0.65	< 10.0	< 0.32	17	< 0.32	18	18
4-nethylphenol	< 10.0	< 0.34	< 10.0	50	< 0.34	< 10.0	< 0.32	16	< 0.32	4.1	18
Benzoic acid	< 50.0	< 1.66	< 50.0	213	< 1.66	< 50.0	< 1.5	< 50.0	< 11.6	< 11.6	< 50.0
2-Nethylsophthalene	< 10.0	< 0.34	< 10.0	< 10.0	< 0.34	< 10.0	< 0.32	14	< 2.4	< 2.4	11
Phenanthrene	< 10.0	< 0.34	< 10.0	< 10.0	< 0.34	< 10.0	< 0.32	13	< 0.593	< 0.593	10
bis(2-ethylhexyl)											
Phthalate	< 10.0	1003	< 10.0	< 10.0	0.093	< 10.0	< 0.32	< 10.0	< 2.4	< 2.4	< 10.0
Carbon disulfide	< 5.0		< 5.0	76	< 10.0	< 10.0		3000			< 5.0
Styrene	< 5.0		< 5.0								16
Aroclor 1016-1240	< 0.5		< 0.5	< 0.5	< 5.1	< 0.5	< 0.04	< 0.5	< 0.64	< 0.64	< 0.5
Aroclor 1254 & 1260	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 0.08	< 1.0	< 0.13	< 0.13	< 1.0

NA = Not analyzed
J = Estimated value

Table 2
Wastewater Treatment Plant Sampling (TAP)
October 4, 1989

Parameter	WWT 001 Primary Clarifier (Water) (ug/l)	WWT 001 Primary Clarifier (Sludge) (mg/kg)	WWT 001 Primary Clarifier (Extract) (ug/l)	WWT 002 Aeration Basin (Sludge) (mg/kg)	WWT 002 Aeration Basin (Extract) (ug/l)	WWT 003 Secondary Clarifier (Sludge) (mg/kg)	WWT 003 Secondary Clarifier (Extract) (ug/l)	WWT 004 Outfall 003 (Water) (ug/l)
Aluminum	6740	MA	MA	5530	MA	9040	MA	653
Arsenic	< 72.0	< 16.0	< 16.0	< 1.7	< 16.0	< 19.4	< 16.0	< 3.0
Barium	80.98	294	31.98	31.98	65.4	84.98	117	49.98
Cadmium	< 96.2	< 5.0	< 2.3	< 2.3	< 5.0	< 25.6	< 5.0	< 4.0
Calcium	149000	MA	144000	144000	MA	358000	MA	351000
Chromium	202	23.6	10.5	10.5	< 3.0	< 44.9	< 3.0	< 7.0
Copper	2258	MA	7.48	7.48	MA	1078	MA	< 3.0
Iron	16900	MA	10700	10700	MA	6600	MA	206
Lead	639	< 20.0	67.3	67.3	< 20.0	373	< 20.0	11.3
Magnesium	141000	MA	9278	9278	MA	8918	MA	9850
Manganese	460	MA	77.7	77.7	MA	84.98	MA	45.9
Mercury	< 11.9	< 2.0	< 0.20	< 0.20	< 2.0	< 3.3	< 2.0	< 0.2
Potassium	< 72.1	4.9	11.0	11.0	5.0	36.58	5.0	< 3.0
Silver	97300	MA	23908	23908	MA	36000	MA	778000
Sodium	MA	MA	MA	MA	MA	MA	MA	MA
Sulfur	< 72.1	MA	12.68	12.68	MA	< 19.2	MA	< 3.0
Vanadium	134000	MA	6740	6740	MA	65400	MA	1130
Zinc	MA	MA	< 0.005	< 0.005	MA	< 0.005	MA	4.03
Methylene chloride	MA	MA	0.038	0.038	MA	0.017	MA	< 10.0
Acetone	MA	MA	< 0.005	< 0.005	MA	< 0.005	MA	< 5.0
Carbon disulfide	MA	MA	< 0.005	< 0.005	MA	< 0.005	MA	< 5.0
Chloroform	MA	MA	< 0.01	< 0.01	MA	< 0.01	MA	< 10.0
2-Butanone	MA	MA	MA	MA	MA	0.393	MA	MA
Hydrogen sulfide	MA	MA	0.143	0.143	MA	MA	MA	MA
1,1,2,2-Tetrachloroethane	MA	MA	< 0.04	< 0.04	MA	< 0.42	MA	< 0.05
Lindane (gamma-BHC)	MA	MA	< 0.39	< 0.39	MA	< 4.2	MA	< 0.5
Aroclor 1016-1246	MA	MA	1.1	1.1	MA	4.93	MA	< 1.0
Aroclor 1254	MA	MA	< 0.02	< 0.02	MA	9.5	MA	< 1.0
Aroclor 1260	MA	MA	< 0.02	< 0.02	MA	MA	MA	< 1.0

J = Estimated value
B = Also found in blank
MA = Not analyzed

Table 1
 WASTEWATER TREATMENT PLANT SAMPLING (WAT)
 November 18, 1989

Parameter	WWP 011 Tritmt. Cnchr 2 (Water) (ug/l)	WWP 012 Primary Clarif. (Slops) (Water) (ug/l)	WWP 012 Primary Clarif. Basin 2 (Water) (ug/l)	WWP 013 Polish. Basin 2 (Slops) (ug/l)	WWP 013 Polish. Basin 2 (Water) (ug/l)	WWP 014 Second. Clarif. (Slops) (Water) (ug/l)	WWP 014 Second. Clarif. (Slops) (ug/l)	WWP 015 Shenan. River (Water) (ug/l)	WWP 016 Blank (Water) (ug/l)
PH	19.0 <	4.0	8.0	21.0	32.0 <	4.0			
TSB (mg/l)	7.66	10.3	28.4	10.5					
SOB (mg/l)	1.0	1.23	1.68	1.92					0.24
TOC (mg/l)	12.2		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
TSS (mg/l)	< 10.0		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Oil and grease (mg/l)	134		507	895	895	16.8	16.8	16.8	16.8
Antimony	< 10.0		47	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Copper	< 10.0		26	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Nickel	< 10.0		1693	NA	NA	NA	NA	NA	NA
Zinc	< 10.0		6.73	NA	NA	NA	NA	NA	NA
Phenol	< 10.0		14.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
4-methylphenol	< 10.0		14.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Sulfur, mol. (SS)	< 0.3		0.43	< 0.3	< 0.3	< 0.43	< 0.43	< 0.3	< 0.3
Arsenic 1016-1248	< 1.0		1.0	< 0.85	< 1.0	< 0.91	< 0.91	< 1.0	< 1.0
Arsenic 1234 & 1268									

J = Estimated value
 NA = Not analyzed
 * = Concentrations as given in column headings unless otherwise noted following parameter.

PCB ANALYSIS RESULTS FOR EMERGENCY AND SULFATE BASINS
(TAT)
12/18/89

PARAMETER	EMERGENCY BASIN (liquid) (ug/l)	SULFATE BASIN #1 (liquid) (ug/l)	SULFATE BASIN #2 (liquid) (ug/l)	SULFATE BASIN #3 (liquid) (ug/l)	SULFATE BASIN #4 (liquid) (ug/l)
PCB-1016	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB-1221	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB-1232	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB-1242	< 0.1	20	< 0.1	< 0.1	< 0.1
PCB-1248	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB-1254	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
PCB-1260	< 0.1	8	< 0.1	< 0.1	< 0.1

NA = not analyzed
J = Estimated value

File: PCBRSLTS
DATE: 01/05/90

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